

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/733,674  
Source: USPTO  
Date Processed by STIC: 12-29-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/733,674

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleic  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino  
Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4  Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0  
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences  
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

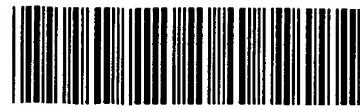
9  Use of n's or Xaa's  
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213>  
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11  Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/733,674

DATE: 12/29/2003  
TIME: 17:52:37

Input Set : A:\ONYX1033-CIP2.ST25.txt  
Output Set: N:\CRF4\12292003\J733674.raw

3 <110> APPLICANT: Johnson, Leisa  
4 Fattaey, Ali  
5 Hermiston, Terry  
6 Shen, Jerry  
7 Laquerre, Sylvie  
9 <120> TITLE OF INVENTION: An Oncolytic Adenovirus  
11 <130> FILE REFERENCE: ONYX1033-CIP2  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/733,674  
15 <141> CURRENT FILING DATE: 2003-12-11  
17 <150> PRIOR APPLICATION NUMBER: US 10/303,598  
19 <151> PRIOR FILING DATE: 2002-11-25  
21 <150> PRIOR APPLICATION NUMBER: US 09/714,409  
23 <151> PRIOR FILING DATE: 2000-11-14  
25 <150> PRIOR APPLICATION NUMBER: US 60/165,638  
27 <151> PRIOR FILING DATE: 1999-11-15  
29 <160> NUMBER OF SEQ ID NOS: 25  
31 <170> SOFTWARE: PatentIn version 3.1  
33 <210> SEQ ID NO: 1  
35 <211> LENGTH: 35  
37 <212> TYPE: DNA  
C--> 39 <213> ORGANISM: Artifical Sequences  
W--> 41 <220> FEATURE:  
41 <223> OTHER INFORMATION: Adenovirus  
43 <400> SEQUENCE: 1  
44 gctgggtgccg tctcgagtgg tgttttttta atagg 35  
47 <210> SEQ ID NO: 2  
49 <211> LENGTH: 35  
51 <212> TYPE: DNA  
C--> 53 <213> ORGANISM: Artifical Sequences  
W--> 55 <220> FEATURE:  
55 <223> OTHER INFORMATION: Adenovirus  
57 <400> SEQUENCE: 2  
58 cctattaaaa aaacaccact cgagacggca ccagc 35  
61 <210> SEQ ID NO: 3  
63 <211> LENGTH: 26  
65 <212> TYPE: DNA  
C--> 67 <213> ORGANISM: Artifical Sequences  
W--> 69 <220> FEATURE:  
69 <223> OTHER INFORMATION: Adenovirus  
71 <400> SEQUENCE: 3  
72 gggcggagta actatgtatgt gttgggg 26  
75 <210> SEQ ID NO: 4  
77 <211> LENGTH: 26

Does Not Comply  
Corrected Diskette Needed

R. J.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,674

DATE: 12/29/2003

TIME: 17:52:37

Input Set : A:\ONYX1033-CIP2.ST25.txt  
 Output Set: N:\CRF4\12292003\J733674.raw

79 <212> TYPE: DNA  
 C--> 81 <213> ORGANISM: Artifical Sequences  
 W--> 83 <220> FEATURE:  
 83 <223> OTHER INFORMATION: Adenovirus  
 85 <400> SEQUENCE: 4  
 86 cccaaacacat actagttact ccggccc 26  
 89 <210> SEQ ID NO: 5  
 91 <211> LENGTH: 37  
 93 <212> TYPE: DNA  
 C--> 95 <213> ORGANISM: Artifical Sequences  
 W--> 97 <220> FEATURE:  
 97 <223> OTHER INFORMATION: Adenovirus  
 99 <400> SEQUENCE: 5  
 100 gtgagcacta gtcgcctgg accatccgga caaagcc 37  
 103 <210> SEQ ID NO: 6  
 105 <211> LENGTH: 34  
 107 <212> TYPE: DNA  
 C--> 109 <213> ORGANISM: Artifical Sequences  
 W--> 111 <220> FEATURE:  
 111 <223> OTHER INFORMATION: Adenovirus  
 113 <400> SEQUENCE: 6  
 114 gtgagcctcg agctcgatcc cgctccggcc ccgg 34  
 117 <210> SEQ ID NO: 7  
 119 <211> LENGTH: 31  
 121 <212> TYPE: DNA  
 123 <213> ORGANISM: d1922/47 *see item 10 on error summary report*  
 125 <400> SEQUENCE: 7  
 126 gctaggatcc gaagggattt acttactcac t 31  
 129 <210> SEQ ID NO: 8  
 131 <211> LENGTH: 31  
 133 <212> TYPE: DNA  
 C--> 135 <213> ORGANISM: Artifical Sequences  
 W--> 137 <220> FEATURE:  
 137 <223> OTHER INFORMATION: Adenovirus  
 139 <400> SEQUENCE: 8  
 140 gctagaattc ctcttcatcc tcgtcgac t 31  
 143 <210> SEQ ID NO: 9  
 145 <211> LENGTH: 20  
 147 <212> TYPE: DNA  
 C--> 149 <213> ORGANISM: Artifical Sequences  
 W--> 151 <220> FEATURE:  
 151 <223> OTHER INFORMATION: Adenovirus  
 153 <400> SEQUENCE: 9  
 154 ggtgacgttt gtttttagggc 20  
 157 <210> SEQ ID NO: 10  
 159 <211> LENGTH: 21  
 161 <212> TYPE: DNA  
 C--> 163 <213> ORGANISM: Artifical Sequences  
 W--> 165 <220> FEATURE:

## RAW SEQUENCE LISTING

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DATE: 12/29/2003

TIME: 17:52:37

Input Set : A:\ONYX1033-CIP2.ST25.txt  
 Output Set: N:\CRF4\12292003\J733674.raw

165 <223> OTHER INFORMATION: Adenovirus  
 167 <400> SEQUENCE: 10  
 168 gccataacag tcagcattac c 21  
 171 <210> SEQ ID NO: 11  
 173 <211> LENGTH: 35  
 175 <212> TYPE: DNA  
**C--> 177 <213> ORGANISM: Artifical Sequences**  
**W--> 179 <220> FEATURE:**  
 179 <223> OTHER INFORMATION: Adenovirus  
 181 <400> SEQUENCE: 11  
 182 gtgagcggat ccgcgtcgatc ccgcgtccggcc cccgg 35  
 185 <210> SEQ ID NO: 12  
 187 <211> LENGTH: 37  
 189 <212> TYPE: DNA  
**C--> 191 <213> ORGANISM: Artifical Sequences**  
**W--> 193 <220> FEATURE:**  
 193 <223> OTHER INFORMATION: Adenovirus  
 195 <400> SEQUENCE: 12  
 196 gtgagcaagc ttgcgtcggt accatccgga caaagcc 37  
 199 <210> SEQ ID NO: 13  
 201 <211> LENGTH: 31  
 203 <212> TYPE: DNA  
**C--> 205 <213> ORGANISM: Artifical Sequences**  
**W--> 207 <220> FEATURE:**  
 207 <223> OTHER INFORMATION: Adenovirus  
 209 <400> SEQUENCE: 13  
 210 cgcggaaattc ttttggattt aagccaatat g 31  
 213 <210> SEQ ID NO: 14  
 215 <211> LENGTH: 30  
 217 <212> TYPE: DNA  
**C--> 219 <213> ORGANISM: Artifical Sequences**  
**W--> 221 <220> FEATURE:**  
 221 <223> OTHER INFORMATION: Adenovirus  
 223 <400> SEQUENCE: 14  
 224 cagtcccggt gtccggatccg ctcggaggag 30  
 227 <210> SEQ ID NO: 15  
 229 <211> LENGTH: 30  
 231 <212> TYPE: DNA  
**C--> 233 <213> ORGANISM: Artifical Sequences**  
**W--> 235 <220> FEATURE:**  
 235 <223> OTHER INFORMATION: Adenovirus  
 237 <400> SEQUENCE: 15  
 238 ctcctccgag cggatccgac accgggactg 30  
 241 <210> SEQ ID NO: 16  
 243 <211> LENGTH: 30  
 245 <212> TYPE: DNA  
**C--> 247 <213> ORGANISM: Artifical Sequences**  
**W--> 249 <220> FEATURE:**  
 249 <223> OTHER INFORMATION: Adenovirus

RAW SEQUENCE LISTING  
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Input Set : A:\ONYX1033-CIP2.ST25.txt  
 Output Set: N:\CRF4\12292003\J733674.raw

251 <400> SEQUENCE: 16  
 252 gcgggaccac cggtgtatc tcaggaggtg 30  
 255 <210> SEQ ID NO: 17  
 257 <211> LENGTH: 20  
 259 <212> TYPE: DNA  
**C--> 261 <213> ORGANISM: Artifical Sequences**  
**W--> 263 <220> FEATURE:**  
 263 <223> OTHER INFORMATION: Adenovirus  
 265 <400> SEQUENCE: 17  
 266 gcattctcta gacacaggtg 20  
 269 <210> SEQ ID NO: 18  
 271 <211> LENGTH: 25  
 273 <212> TYPE: DNA  
**C--> 275 <213> ORGANISM: Artifical Sequences**  
**W--> 277 <220> FEATURE:**  
 277 <223> OTHER INFORMATION: Adenovirus  
 279 <400> SEQUENCE: 18  
 280 gggcgtaacc gagtaagatt tggcc 25  
 283 <210> SEQ ID NO: 19  
 285 <211> LENGTH: 31  
 287 <212> TYPE: DNA  
**C--> 289 <213> ORGANISM: Artifical Sequences**  
**W--> 291 <220> FEATURE:**  
 291 <223> OTHER INFORMATION: Adenovirus  
 293 <400> SEQUENCE: 19  
 294 ggcagataat atgtctcatt ttcagtcccg g 31  
 297 <210> SEQ ID NO: 20  
 299 <211> LENGTH: 31  
 301 <212> TYPE: DNA  
**C--> 303 <213> ORGANISM: Artifical Sequences**  
**W--> 305 <220> FEATURE:**  
 305 <223> OTHER INFORMATION: Adenovirus  
 307 <400> SEQUENCE: 20  
 308 gctaggatcc gaagggattt acttactcac t 31  
 311 <210> SEQ ID NO: 21  
 313 <211> LENGTH: 31  
 315 <212> TYPE: DNA  
**C--> 317 <213> ORGANISM: Artifical Sequences**  
**W--> 319 <220> FEATURE:**  
 319 <223> OTHER INFORMATION: Adenovirus  
 321 <400> SEQUENCE: 21  
 322 gctagaattc ctctccatcc tcgtcgac t 31  
 325 <210> SEQ ID NO: 22  
 327 <211> LENGTH: 21  
 329 <212> TYPE: DNA  
**C--> 331 <213> ORGANISM: Artifical Sequences**  
**W--> 333 <220> FEATURE:**  
 333 <223> OTHER INFORMATION: Adenovirus  
 335 <400> SEQUENCE: 22

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,674

DATE: 12/29/2003

TIME: 17:52:37

Input Set : A:\ONYX1033-CIP2.ST25.txt  
Output Set: N:\CRF4\12292003\J733674.raw

336 gccataacag tcagccttac c 21  
339 <210> SEQ ID NO: 23  
341 <211> LENGTH: 20  
343 <212> TYPE: DNA  
C--> 345 <213> ORGANISM: Artifical Sequences  
W--> 347 <220> FEATURE:  
347 <223> OTHER INFORMATION: Adenovirus  
349 <400> SEQUENCE: 23  
350 ggtgacgtag gtttttagggc 20  
353 <210> SEQ ID NO: 24  
355 <211> LENGTH: 24  
357 <212> TYPE: DNA  
C--> 359 <213> ORGANISM: Artifical Sequences  
W--> 361 <220> FEATURE:  
361 <223> OTHER INFORMATION: Adenovirus  
363 <400> SEQUENCE: 24  
364 cctttatcca gtgcattgac tggg 24  
367 <210> SEQ ID NO: 25  
369 <211> LENGTH: 20  
371 <212> TYPE: DNA  
C--> 373 <213> ORGANISM: Artifical Sequences  
W--> 375 <220> FEATURE:  
375 <223> OTHER INFORMATION: Adenovirus  
377 <400> SEQUENCE: 25  
378 ggagaaaagg ttgcagccagg 20

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/733,674

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TIME: 17:52:38

Input Set : A:\ONYX1033-CIP2.ST25.txt  
Output Set: N:\CRF4\12292003\J733674.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number  
L:39 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:41 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:53 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:55 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:67 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:83 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:95 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:97 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:109 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:111 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:135 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:137 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:149 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:151 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:163 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:177 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:191 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:193 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:205 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:207 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:219 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:221 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:233 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:235 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:247 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:261 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:263 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17  
L:275 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18  
L:289 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:291 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:303 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20  
L:317 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:319 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21  
L:331 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22  
L:333 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22  
L:345 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23  
L:347 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23  
L:359 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24  
L:361 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:373 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/733,674

DATE: 12/29/2003

TIME: 17:52:38

Input Set : A:\ONYX1033-CIP2.ST25.txt  
Output Set: N:\CRF4\12292003\J733674.raw

L:375 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25